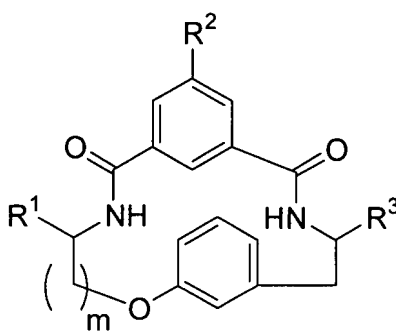


## Listing of Claims

The listing of claims will replace all prior versions, and listings, of claims in the application. There are no claim amendments.

Claim 1 (Original) A compound of the formula I:



I

wherein:

R<sup>1</sup> is selected from the group consisting of:

- (1) hydrogen,
- (2) -C<sub>1-6</sub>alkyl, -C<sub>2-6</sub>alkenyl, -C<sub>2-6</sub>alkynyl, or -C<sub>3-8</sub>cycloalkyl which is unsubstituted or substituted with 1-7 substituents where the substituents are independently selected from:
  - (a) halo,
  - (b) hydroxy,
  - (c) -O-C<sub>1-6</sub>alkyl,
  - (d) -C<sub>3-6</sub>cycloalkyl,
  - (e) phenyl or biphenyl, which is unsubstituted or substituted with 1-5 substituents where the substituents are independently selected from:
    - (i) -C<sub>1-6</sub>alkyl,
    - (ii) -C<sub>3-6</sub>cycloalkyl,
    - (iii) -O-C<sub>1-6</sub>alkyl,
    - (iv) halo,
    - (v) hydroxy,
    - (vi) -CF<sub>3</sub>,
    - (vii) -OCF<sub>3</sub>,

- (viii)  $-NR^9R^{10}$ , and
- (ix)  $-CN$ ,
- (f)  $-CO_2R^9$ , wherein  $R^9$  is independently selected from:
  - (i) hydrogen,
  - (ii)  $-C_{1-6}$ alkyl, which is unsubstituted or substituted with 1-6 fluoro,
  - (iii) benzyl, and
  - (iv) phenyl,
- (g)  $-NR^9R^{10}$ , wherein  $R^{10}$  is independently selected from:
  - (i) hydrogen,
  - (ii)  $-C_{1-6}$ alkyl, which is unsubstituted or substituted with 1-6 fluoro,
  - (iii) benzyl, and
  - (iv) phenyl,
- (h)  $-CONR^9R^{10}$ ,
- (3) phenyl which is unsubstituted or substituted with 1-5 substituents where the substituents are independently selected from:
  - (a)  $-C_{1-6}$ alkyl,
  - (b)  $-C_{1-6}$ alkyl-phenyl,
  - (c)  $-C_{3-6}$ cycloalkyl,
  - (d)  $-O-C_{1-6}$ alkyl,
  - (e) halo,
  - (f) hydroxy,
  - (g)  $-CF_3$ ,
  - (h)  $-OCF_3$ ,
  - (i)  $-NR^9R^{10}$ , and
  - (j)  $-CN$ ;

$R^2$  is selected from the group consisting of:

- (1) hydrogen,
- (2)  $R^4-S(O)_p$ ,

wherein  $R^4$  is independently selected from the group consisting of:

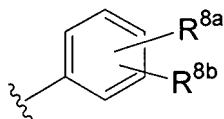
- (a)  $-C_{1-6}$ alkyl, which is unsubstituted or substituted with 1-6 fluoro,
- (b) phenyl, and
- (c) benzyl,

and wherein  $p$  is independently 0, 1, or 2,

- (3)  $R^4-S(O)_pN(R^5)-$ ,

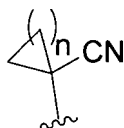
wherein  $R^5$  is independently selected from the group consisting of:

- (a) hydrogen,
- (b) -C<sub>1-6</sub>alkyl, which is unsubstituted or substituted with 1-6 fluoro,
- (c) phenyl, and
- (d) benzyl,
- (4) -CN,
- (5) -C<sub>1-6</sub>alkyl-CN,
- (6) halogen,
- (7)



wherein R<sup>8a</sup> and R<sup>8b</sup> are independently selected from the group consisting of:

- (a) hydrogen,
- (b) -CN,
- (c) halo,
- (d) -C<sub>1-6</sub>alkyl,
- (e) -O-R<sup>5</sup>,
- (f) -S-R<sup>5</sup>,
- (g) -CO<sub>2</sub>R<sup>5</sup>, and
- (h) tetrazolyl,
- (8)



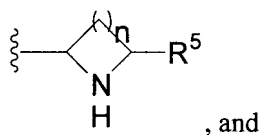
wherein n is 1, 2, 3 or 4;

R<sup>3</sup> is selected from the group consisting of:

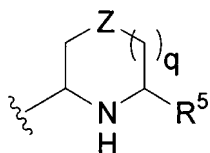
- (1) -CH(OH)-R<sup>6</sup>,
- (2) -C(O)R<sup>6</sup>,
- (3) -CH(R<sup>6</sup>)-NR<sup>7</sup>R<sup>9</sup>, and
- (4) -C(O)-NR<sup>7</sup>R<sup>9</sup>;

R<sup>6</sup> is independently selected from the group consisting of:

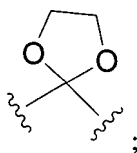
- (1) hydrogen
- (2) C<sub>1-6</sub> alkyl,
- (3)



(4)



wherein Z is selected from the group consisting of -C(O)-, -CH(OH)-, and



and wherein q is 1 or 2;

R<sup>7</sup> is selected from the group consisting of :

- (1) hydrogen,
- (2) -C<sub>1-6</sub>alkyl, -C<sub>2-6</sub>alkenyl, -C<sub>2-6</sub>alkynyl, or -C<sub>3-8</sub>cycloalkyl which is unsubstituted or substituted with 1-7 substituents where the substituents are independently selected from:
  - (a) halo,
  - (b) hydroxy,
  - (c) -O-C<sub>1-6</sub>alkyl,
  - (d) -C<sub>3-6</sub>cycloalkyl,
  - (e) phenyl or biphenyl, which is unsubstituted or substituted with 1-5 substituents where the substituents are independently selected from:
    - (i) -C<sub>1-6</sub>alkyl,
    - (ii) -C<sub>3-6</sub>cycloalkyl,
    - (iii) -O-C<sub>1-6</sub>alkyl,
    - (iv) halo,
    - (v) hydroxy,
    - (vi) -CF<sub>3</sub>,
    - (vii) -OCF<sub>3</sub>,
    - (viii) -NR<sup>9</sup>R<sup>10</sup>, and
    - (ix) -CN,
  - (f) -CO<sub>2</sub>R<sup>9</sup>,

- (g) -NR<sup>9</sup>R<sup>10</sup>,
- (h) -CONR<sup>9</sup>R<sup>10</sup>,
- (3) -CHR<sup>5</sup>-CONR<sup>9</sup>R<sup>10</sup>,
- (4) phenyl which is unsubstituted or substituted with 1-5 substituents where the substituents are independently selected from:
  - (a) -C<sub>1-6</sub>alkyl,
  - (b) -C<sub>1-6</sub>alkyl-phenyl,
  - (c) -C<sub>3-6</sub>cycloalkyl,
  - (d) -O-C<sub>1-6</sub>alkyl,
  - (e) halo,
  - (f) hydroxy,
  - (g) -CF<sub>3</sub>,
  - (h) -OCF<sub>3</sub>,
  - (i) -NR<sup>9</sup>R<sup>10</sup>, and
  - (j) -CN;

m is independently 1, 2, 3 or 4;  
and pharmaceutically acceptable salts thereof.

Claim 2 (Original) The compound of Claim 1 wherein R<sup>1</sup> is selected from the group consisting of:

- (1) hydrogen,
- (2) -C<sub>1-6</sub>alkyl, which is unsubstituted or substituted with 1-7 substituents where the substituents are independently selected from:
  - (a) halo,
  - (b) hydroxy,
  - (c) -O-C<sub>1-6</sub>alkyl,
  - (d) -C<sub>3-6</sub>cycloalkyl,
  - (e) phenyl or biphenyl, which is unsubstituted or substituted with 1-5 substituents where the substituents are independently selected from:
    - (i) -C<sub>1-6</sub>alkyl,
    - (ii) -C<sub>3-6</sub>cycloalkyl,
    - (iii) -O-C<sub>1-6</sub>alkyl,
    - (iv) halo,
    - (v) hydroxy,
    - (vi) -CF<sub>3</sub>,

- (vii)  $-\text{OCF}_3$ ,
- (viii)  $-\text{NR}^9\text{R}^{10}$ , and
- (ix)  $-\text{CN}$ ,
- (f)  $-\text{CO}_2\text{R}^9$ , wherein  $\text{R}^9$  is independently selected from:
  - (i) hydrogen,
  - (ii)  $-\text{C}_{1-6}$ alkyl, which is unsubstituted or substituted with 1-6 fluoro,
  - (iii) benzyl, and
  - (iv) phenyl,
- (g)  $-\text{NR}^9\text{R}^{10}$ , wherein  $\text{R}^{10}$  is independently selected from:
  - (i) hydrogen,
  - (ii)  $-\text{C}_{1-6}$ alkyl, which is unsubstituted or substituted with 1-6 fluoro,
  - (iii) benzyl, and
  - (iv) phenyl,
- (h)  $-\text{CONR}^9\text{R}^{10}$ ,
- (3) phenyl which is unsubstituted or substituted with 1-5 substituents where the substituents are independently selected from:
  - (a)  $-\text{C}_{1-6}$ alkyl,
  - (b)  $-\text{C}_{1-6}$ alkyl-phenyl,
  - (c)  $-\text{C}_{3-6}$ cycloalkyl,
  - (d)  $-\text{O}-\text{C}_{1-6}$ alkyl,
  - (e) halo,
  - (f) hydroxy,
  - (g)  $-\text{CF}_3$ ,
  - (h)  $-\text{OCF}_3$ ,
  - (i)  $-\text{NR}^9\text{R}^{10}$ , and
  - (j)  $-\text{CN}$ .

Claim 3 (Original) The compound of Claim 1 wherein  $\text{R}^1$  is selected from the group consisting of:

- (1) hydrogen,
- (2) methyl,
- (3) isopropyl,
- (4) isobutyl, and
- (5) phenyl.

Claim 4 (Original) The compound of Claim 1 wherein  $R^2$  is:  
 $R^4-S(O)_2N(R^5)-$ ,

wherein  $R^4$  is independently selected from the group consisting of:

- (a)  $-C_{1-6}$ alkyl, which is unsubstituted or substituted with 1-6 fluoro,
- (b) phenyl, and
- (c) benzyl,

and wherein  $R^5$  is independently selected from the group consisting of:

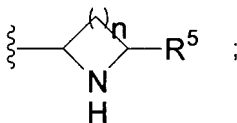
- (a) hydrogen,
- (b)  $-C_{1-6}$ alkyl, which is unsubstituted or substituted with 1-6 fluoro,
- (c) phenyl, and
- (d) benzyl.

Claim 5 (Original) The compound of Claim 1 wherein  $R^2$  is  
 $CH_3-S(O)_2N(CH_3)-$ .

Claim 6 (Original) The compound of Claim 1 wherein  $R^3$  is selected from the group consisting of:

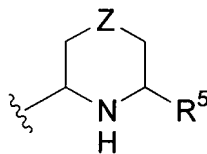
- (1)  $-CH(OH)-R^6$ ,
- (2)  $-C(O)R^6$ , and
- (3)  $-CH(R^6)-NR^7R^9$ .

Claim 7 (Original) The compound of Claim 1 wherein  $R^6$  is:



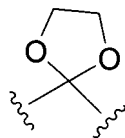
and wherein  $n$  is 2 or 3, and  $R^5$  is hydrogen or methyl.

Claim 8 (Original) The compound of Claim 1 wherein  $R^6$  is:



wherein  $R^5$  is hydrogen or methyl, and  $Z$  is selected from the group consisting of

-C(O)-, -CH(OH)-, and



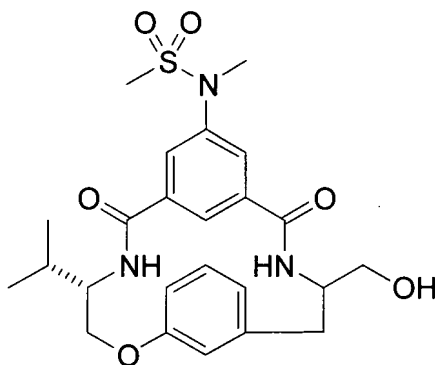
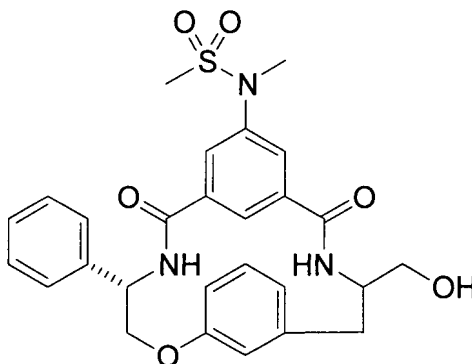
Claim 9 (Original) The compound of Claim 1 wherein R<sup>3</sup> is selected from the group consisting of:

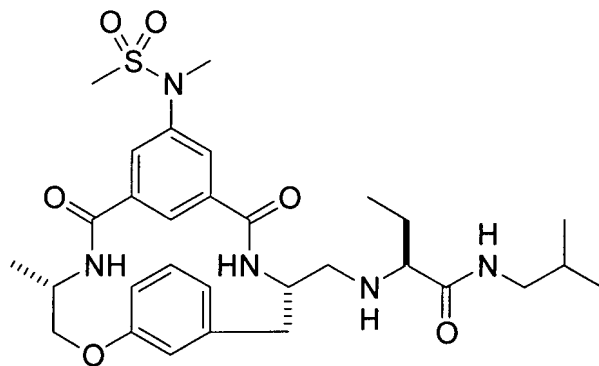
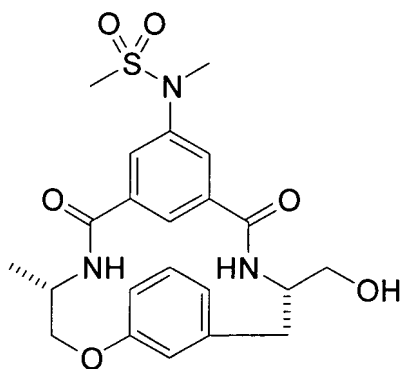
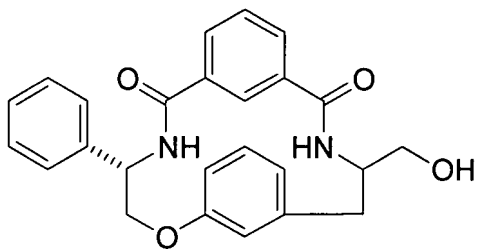
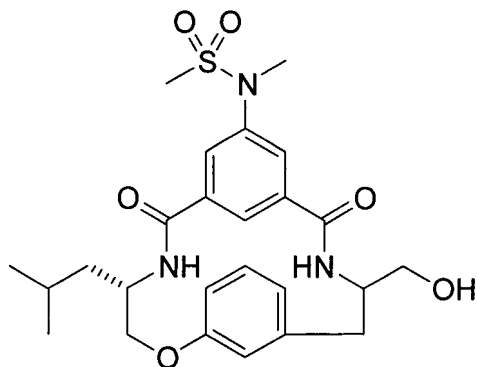
- (1) -CH<sub>2</sub>-OH, and
- (2) -CH<sub>2</sub>-NH-CH(CH<sub>2</sub>CH<sub>3</sub>)-CO-NH-CH<sub>2</sub>CH(CH<sub>3</sub>)<sub>2</sub>.

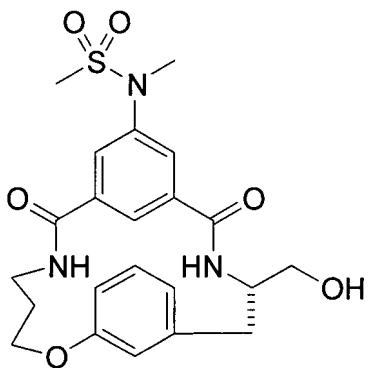
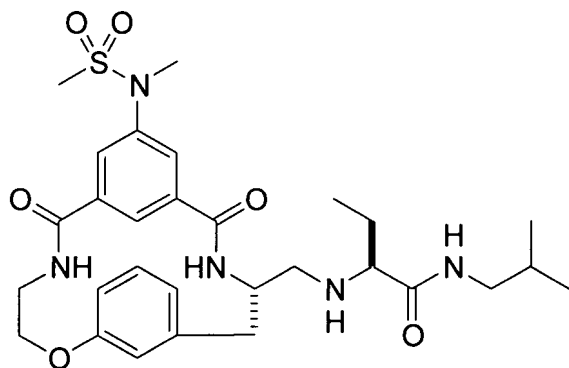
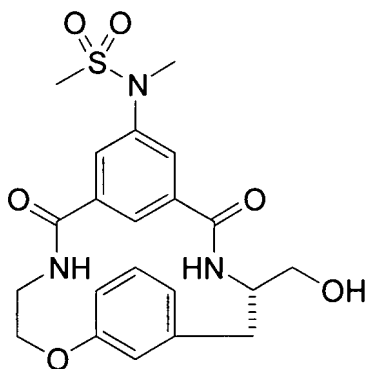
Claim 10 (Original) The compound of Claim 1 wherein m is 1.

Claim 11 (Original) The compound of Claim 1 wherein m is 2.

Claim 12 (Original) A compound which is selected from the group consisting of:







and pharmaceutically acceptable salts thereof.

Claim 13 (Original) A pharmaceutical composition comprising an effective amount of a compound of Claim 1 and a pharmaceutically acceptable carrier.

Claim 14 (Original) A method for inhibition of  $\beta$ -secretase activity in a mammal in need thereof which comprises administering to the mammal a therapeutically effective amount of a compound of Claim 1.

Claim 15 (Original) A method for treating, preventing, controlling, ameliorating or reducing the risk of Alzheimers disease in a patient in need thereof comprising administering to the patient an effective amount of a compound of Claim 1.